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	Application Number	10/695,400	ormation unless it displays a valid OMB control number.					
RANSMITTAL	Filing Date	27 October						
(Y)	First Named Inventor	Fitzgerald						
FORM	Art Unit	1743						
ANO TO S	Examiner Name	Nagpaul						
(to be used to all correspondence after initial)	Attanana Danisa Nissahaa							
Particular of Pages in This Submission	681 Attorney Docket Number	02-027						
ENCLOSURES (Check all that apply)								
Fee Transmittal Form Fee Attached Amendment/Reply After Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified Copy of Priority Document(s) Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53	Drawing(s) Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence A Terminal Disclaimer Request for Refund CD, Number of CD(s) Landscape Table on CD	ddress	After Allowance Communication to TC Appeal Communication to Board of Appeals and Interferences Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Other Enclosure(s) (please Identify below): Form 1449 w/refs					
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SIGNA	TURE OF APPLICANT, ATTO	RNEY, C	OR AGENT					
Firm Name Frank Rosenberg								
	selly							
Printed name Frank Rosenberg	0							
Date 8 August 2007	F	Reg. No.	37,068					
CERTIFICATE OF TRANSMISSION/MAILING								
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:								
Signature	OHESTIZO							
Typed or printed name Esmeralda Mesti	zo C		Date august 16,2007					

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

AND 2 O 2001 PM

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Brophy et al.

Application No. 10/695,400

Art Unit: 1743

Filed: Oct 27, 2003

Examiner: Jyoti Nagpaul

For: MANIFC

MANIFOLD DESIGNS, AND

Atty Docket: 02-027

FLOW CONTROL IN

MICROCHANNEL DEVICES

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Pursuant to the duty of disclosure under 37 CFR §§ 1.56 and 1.97-1.99, the documents listed on the attached Form(s) PTO-1449 are being brought to the attention of the Examiner in charge of the above-identified application. Because no first Office Action on the merits has been mailed, it is believed that no fees are due; however, if any fees are required for consideration of this Information Disclosure Statement, please charge such fees to Deposit Account No. 50-1749.

The Examiner is respectfully requested to initial the space adjacent each document entry on the Form(s) PTO-1449, and to return a copy of the initialled Form(s) PTO-1449 to confirm that the documents have been considered and have been officially made of record in this application.

If the Examiner has any questions or wishes to discuss this application, the Examiner is invited to telephone the undersigned representative at the number set forth below.

Respectfully submitted,

Date: 8 Az 2007

Frank Rosenberg Registration No. 37,068

Tel. No. 415-383-3660

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AUG 2 0 2007 Form PTO-1449				Attorney Docket 02-027 Applicant Fitzgerald et al.	02-027 10/695,400 Applicant				
FRADEN	Intermation Disclosure Citation			Filing Date Oct 27, 2003	Filing Date Group Art Unit				
,			U.S. Pa	tent Documents					
Examiner Initial		Patent Number	Date	Name	Class	Sub- Class	Filing Date		
	AA						·		
			Foreign I	Patent Documents		<u> </u>			
		Document Number	Date	Country	Class	Sub- Class	Trans- lation		
	AF	DE 10148926A1	4/17/2003	Germany					
	AG	DT 2428964A1	1/2/1976	Germany					
	AH	EP 1038575	9/27/2000	Europe					
	AI	WO 02/072252	9/19/2002	PCT					
	AJ	DE 19935433A1	1/8/99	Germany					
	AK	WO 03/080233	10/2/03	PCT					
	AL	WO 03/097229	11/27/03	PCT					
	AM	WO 04/042303	5/21/04	PCT					
	AN	WO 03/043730	5/30/03	РСТ					
		Other Docu	ments (Includir	ng Author, Title, Date, Pertinent	Pages, etc.)				
	AR	PCT Search Repor		22006/012849 mailed Aug 22 thority	2, 2006 inclu	ıding Writ	ten Opinio		
	AS	Amador et al., "Flow Distribution in different microreactor scale-out geometries and the effect of manufacturing tolerances and channel blockage," Chem. Eng. Journal, 101, pp379-390, 2004							
	AT	PCT International Preliminary Report on Patentability from PCT/US2004/035601							
	AU	PCT Search Report from PCT/US2004/035601 mailed Apr 12, 2005 including Written Opinion of the International Searching Authority							
	AV	Zhao et al., "Microchannel Heat Exchangers with Carbon Dioxide," pp. 1-103 (2001).							
Examiner	1			Date Considered					
				s in conformance with MPEP § 609. xt communication to Applicant.	Draw line throu	gh citation if i	not in		

Page 2 of 2

Form PTO-1449				Attorney Docket 02-027		Application No. 10/695,400			
				Applicant Fitzgerald et al.					
1	Information Disclosure Citation			Filing Date Oct 27, 2003		Group Art Unit 1743			
			U.S. Pa	tent Docı	ıments				
Examiner Initial		Patent Number	Date		Name		iss	Sub- Class	Filing Date
	AA								
	,		Foreign F	Patent Do	cuments				
		Document Number	Date		Country	Cla	ass	Sub- Class	Trans- lation
	AF								
	AG								
	1	Other Docu	ments (Includin	g Author, Ti	tle, Date, Pertinent Pa	ges, e	etc.)		
<u> </u>	АН	Mas et al., "Scalable Microfabricated Multiphase reactors for Direct Fluorination Reactions," Transducers '03, 655-658 (2003).							
	AI	Commenge et al., "Optimal Decisgn for Flow Uniformity in Microchannel Reactors," AIChE Journal, 345-358 (Feb. 2002).							
	AJ	Rebrov et al., "Header Design for Flow Equalization in Microstructured Reactors," AIChE Journal, 28-38 (2007).							
	AR	Griffini et al., "Effect of Microchannel Plate Design on Fluid Flow Uniformity at Low Flow Rates," Chem. Eng. Technol. 395-406 (2007).							
	AS	Bergles et al., "On the Nature of Critical Heat Flux in microchannels," J. Heat Transfer, 101-107 (Jan 2005).							
	AT	Balaji et al., "Improved Design of Microchannel Plate Geometry for uniform Flow Distribution," Can. J. Of Chem. Eng., 715-721 (Dec 2006).							
	AU	Delsman et al., "Microchannel Plate Geometry Optimization for Even Flow Distribution at High Flow Rates," Trans. IChemE Part A, 267-275 (Feb 2004).							
	AV	Jousse et al., "Compact model for multiphase liquid-liquid flows in microfluidic devices," Lab on a Chip, 646-656 (2005).							
Examiner					Date Considered				
		eference considered, whe considered. Include copy			ce with MPEP § 609. Dra ion to Applicant.	ıw line t	hroug	gh citation if	not in